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APPLICATION NO.		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/846,512	09/846,512 05/01/2001		Rachel Meyers	10448-046002 / 5523 MPI2000-18		
26161	7590	10/14/2003	EXAMINER			
FISH & RI		SON PC	YU, MISOOK			
225 FRANKLIN ST BOSTON, MA 02110				ART UNIT	PAPER NUMBER	
,				1642	ic	
			·	DATE MAILED: 10/14/2003	19	
					/	

Please find below and/or attached an Office communication concerning this application or proceeding.

· ·		Applicatio	n No.	Applicant(s)					
•		09/846,51		MEYERS ET AL.					
	Office Action Summary	Examiner		Art Unit	 				
	•	MISOOK '	VII Ph D	1642					
	The MAILING DATE of this communication app				dress				
Period for Reply									
THE I - Exter after - If the - If NC - Failu - Any I	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no eve within the statu will apply and wil cause the appli	nt, however, may a reply be tim tory minimum of thirty (30) days l expire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered timely the mailing date of this co O (35 U.S.C. § 133).	mmunication.				
1)⊠	Responsive to communication(s) filed on 20 h	<u> March 2003</u>							
2a) <u></u> □	This action is FINAL . 2b)⊠ Thi	is action is	non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
· ·	ion of Claims	_							
•	Claim(s) <u>54-68</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
·	Claim(s) is/are allowed.								
·	Claim(s) <u>54-68</u> is/are rejected.								
· · · · · ·	7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.								
•	ion Papers	. 0.0001110	Admontona.						
9)[The specification is objected to by the Examine	r.							
10)	The drawing(s) filed on is/are: a)□ accep	oted or b)	objected to by the Exa	miner.					
	Applicant may not request that any objection to the	e drawing(s)	be held in abeyance. So	ee 37 CFR 1.85(a).	•				
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
12) The oath or declaration is objected to by the Examiner.									
Priority under 35 U.S.C. §§ 119 and 120									
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a) All b) Some * c) None of:									
	Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
* 5	 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14) 🗌 A	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
	 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 								
Attachmen	t(s)	-							
2) Notic	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) 18	<u>8</u> .		(PTO-413) Paper No(Patent Application (PTC uation Sheet .					

Art Unit: 1642

The Examiner of your application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Examiner Misook Yu.

DETAILED ACTION

Claims 19, 54-68 are pending and examined on merits.

Drawings

The drawings were received on March 20, 2003. These drawings are acceptible.

Specification

The objection of disclosure is withdrawn in view of the amendment.

Claim Rejections - 35 USC § 112

The rejection of claims under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention is **withdrawn** in view of the amendment as well as the persuasive argument.

The newly submitted Claims 63 and 64 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 63 and 64 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are: the interpretation step linking the active steps of the claims to the purpose stated in the preamble of the claims. While all of the technical details of a method need not be recited, the claims should include

Art Unit: 1642

enough information to clearly and accurately describe the invention and how it is to be practiced. The minimum requirements for method steps minimally include a contacting step in which the reaction of the sample with the reagents necessary for the assay is recited, a detection step in which the reaction steps are quantified or visualized, and a correlation step describing how the results of the assay allow for the determination.

The rejection of claims rejected under **35 U.S.C. 112**, **first paragraph**, as failing to comply with the enablement requirement is **withdrawn** because applicant argument is persuasive.

Claims 19, 58, 63, and 64 are newly rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claims 19, 58, 63, and 64 are interpreted as drawn to method comprising contacting a cell expressing SEQ ID NO:12 with a compound, detecting hydrolysis of said compound, and concluding said compound either binds or interact SEQ ID NO:12 when hydrolysis of said compound is detected. Underwood et al (see art rejection below) or Scott et al (2001, Nature Genetics, vol. 27, pages 59-63) teach that a cell (a live organism) has many proteases whose function, i.e. hydrolysis of peptide bond, are similar to instant SEQ ID NO:12. The specification does not teach how to determine whether hydrolysis of a compound is caused by SEQ ID NO:12 or any other proteases of a cell. Note other proteases of a cell listed in the paragraph bridging

left and right columns of page 338 of Underwood et al, or the proteases produced by the alternate splicing forms disclosed at page 59 of Scott et al. In summary, neither the art nor the specification teaches an assay capable of concluding that hydrolysis of a compound is occurred by SEQ ID NO:12.

The new claim 64 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 64 requires use of "a substrate" of SEQ ID NO:12 protease. The specification does not describe the chemical structure of a substrate of SEQ ID NO:12. Further, Underwood et al (see art rejection below) teach that SEQ ID NO:12 substrates have not been identified.

Priority

The Applicant's claim for domestic priority i.e. a CIP of Appl. No. 09/633,300, filed 08/08/2000, which claims the benefit of US Provisional Appl. No. 60/200,621 filed 04/28/2000 is acknowledged. However, the parent applications upon which priority is claimed fails to provide adequate support under 35 U.S.C. 112 for claims 54-68 of this application. Claims 54-68 require SEQ ID NO:12 protein. However, neither the Non-provisional Application nor the Provisional Application discloses SEQ ID NO:12. Note the protein sequence disclosed in the parent cases and instant SEQ ID NO:12 are not same. SEQ ID NO:2 of the parent cases has 453 aa but instant SEQ ID NO:12 is 454

Art Unit: 1642

aa protein. Note attached SEQ ID NO:2 of the parent cases is missing Alanine. Claim

Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 19, 54-56, 59, and 68 are newly rejected under 35 U.S.C. 102(b) as being anticipated by Underwood et al, Biochim Biophys Acta. 2000 Nov 15;1502(3):337-50.

The instant claims have two part active steps, i.e. contacting SEQ ID NO:12 protein with a compound and determine whether the compound binds said protein.

Underwood et al discloses a protein identical to instant SEQ ID NO:12 (note Fig. 4, also note the attached sequence alignment). The instant claims read on the immunohistochemstry assay of the prior art at page 340 and Fig. 7. This rejection affects all dependent claims.

Conclusion

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MISOOK YU, Ph.D. whose telephone number is 703-308-2454. The examiner can normally be reached on 8 A.M. to 5:30 P.M., every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony C Caputa can be reached on 703-308-3995. The fax phone

Art Unit: 1642

Page 6

number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Misook Yu October 9, 2003

> MARY E. MOSHEH PRIMARY EXAMINER GROUP 1800 [600